**Assignment**

1. Write a query to find the name (first\_name, last\_name) and the salary of the employees who have a higher salary than the employee whose last\_name='Peter'

select first\_name, last\_name, salary from employees

where salary > (select max(salary) from employees where first\_name = "Peter");

2. Write a query to find the name (first\_name, last\_name) and the salary of the employees who have a higher salary than their manager.

select e.first\_name, e.last\_name, e.salary from employees e

join employees m on m.employee\_id = e.manager\_id

where e.salary > m.salary;

3. Write a query to find the name (first\_name, last\_name) of all employees who works in the IT department along with their manager name;

select e.first\_name as e\_first\_name, e.last\_name as e\_last\_name m.first\_name as mgn\_name from employees m

join employees e on m.employee\_id = e.manager\_id

join departments d on d.department\_id = e.department\_id

where d.department\_name = "IT";

4. Write a query to find the name (first\_name, last\_name), and salary of the employees whose salary is equal to the minimum salary for their job grade.

select e.first\_name, e.last\_name, j.min\_salary from employees e

join jobs j on j.job\_id = e.job\_id

where e.salary = j.min\_salary;

5. Write a query to find the name (first\_name, last\_name), and salary of the employees who earns more than the average salary and works in any of the IT departments.

select e.first\_name, e.last\_name, e.salary, d.department\_id from employees e

join departments d on d.department\_id = e.department\_id

where salary > (select avg(salary) from employees) and d.department\_name like "IT%" ;

6. Write a query to find the name (first\_name, last\_name), and salary of the employees who earn the same salary as the minimum salary for all departments.

select e.first\_name, e.last\_name, min(salary) from employees e

group by department\_id order by e.first\_name;

7. Write a query to find the name (first\_name, last\_name) and salary of the employees who earn a salary that is higher than the salary of all the Shipping Clerk (JOB\_ID = 'SH\_CLERK'). Sort the results of the salary of the lowest to highest.

select e.first\_name , e.last\_name, e.salary from employees e

where e.salary> (select max\_salary from jobs where JOB\_ID = 'SH\_CLERK');

8.Write a query to display the employee ID, first name, last name, salary of all employees whose salary is above average for their departments.

select e.department\_id, e.first\_name, e.last\_name, e.salary

from employees e

join (select e1.department\_id, avg(e1.salary) as avg\_sal from employees e1 group by e1.department\_id) test on test.department\_id = e.department\_id

where e.salary > test.avg\_sal;

9. Write a query to find the 5th maximum salary in the employees table.

select distinct(salary), first\_name, last\_name from employees

order by salary desc limit 4,1;

10. Write a query to list the department ID and name of all the departments where no employee is working.

select department\_id, department\_name from departments

where manager\_id is null;